```
import pandas as pd
d=pd.read_csv("E:/SHEIK/employees - employeess.csv")
#Get the table data
print("Get the table data:\n")
print(d)
```

```
Get the table data:

     First Name  Gender  Start Date Last Login Time  Salary  Bonus %  \
0       Douglas    Male    8/6/1993        12:42 PM   97308    6.945
1        Thomas    Male   3/31/1996         6:53 AM   61933    4.170
2         Maria  Female   4/23/1993        11:17 AM  130590   11.858
3         Jerry    Male    3/4/2005         1:00 PM  138705    9.340
4         Larry    Male   1/24/1998         4:47 PM  101004    1.389
..          ...     ...         ...             ...     ...      ...
995       Henry     NaN  11/23/2014         6:09 AM  132483   16.655
996    Phillip    Male   1/31/1984         6:30 AM   42392   19.675
997    Russell    Male   5/20/2013        12:39 PM   96914    1.421
998      Larry    Male   4/20/2013         4:45 PM   60500   11.985
999     Albert    Male   5/15/2012         6:24 PM  129949   10.169

    Senior Management                 Team
0                True            Marketing
1                True                  NaN
2               False              Finance
3                True              Finance
4                True       Client Services
..                ...                  ...
995             False          Distribution
996             False              Finance
997             False              Product
998             False  Business Development
999              True                Sales

[1000 rows x 8 columns]
```

```
import pandas as pd
#print(d.to_string())
df=pd.DataFrame(d)
#print(df)
#Get the column heading
print("\nGet the column heading\n",df.columns)
```

```
Get the column heading
 Index(['First Name', 'Gender', 'Start Date', 'Last Login Time', 'Salary',
       'Bonus %', 'Senior Management', 'Team'],
      dtype='object')
```

```
#Get the shape-(no.of rows,no,of columns)
print("\nGet the shape-(no.of rows,no,of columns\n",df.shape)
```

```
Get the shape-(no.of rows,no,of columns
 (1000, 8)
```

```
#Extract/slice the table values-[including this row,excluding this row]
print("\nExtract/slice the table values-[including this row,excluding this row]\n",df[2:5])
```

```
Extract/slice the table values-[including this row,excluding this row]
   First Name  Gender Start Date Last Login Time  Salary  Bonus %  \
2      Maria  Female  4/23/1993        11:17 AM  130590   11.858
3      Jerry    Male   3/4/2005         1:00 PM  138705    9.340
4      Larry    Male  1/24/1998         4:47 PM  101004    1.389

  Senior Management            Team
2             False         Finance
3              True         Finance
4              True  Client Services
```

```
data=pd.read_csv("E:/SHEIK/employees - employeess.csv")
```

```
type(data)
```

```
pandas.core.frame.DataFrame
```

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1000 entries, 0 to 999
Data columns (total 8 columns):
 #   Column             Non-Null Count  Dtype  
---  ------             --------------  -----  
 0   First Name         933 non-null    object 
 1   Gender             855 non-null    object 
 2   Start Date         1000 non-null   object 
 3   Last Login Time    1000 non-null   object 
 4   Salary             1000 non-null   int64  
 5   Bonus %            1000 non-null   float64
 6   Senior Management  933 non-null    object 
 7   Team               957 non-null    object 
dtypes: float64(1), int64(1), object(6)
memory usage: 62.6+ KB
```

```
data
```

	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
0	Douglas	Male	8/6/1993	12:42 PM	97308	6.945	True	Marketing
1	Thomas	Male	3/31/1996	6:53 AM	61933	4.170	True	NaN
2	Maria	Female	4/23/1993	11:17 AM	130590	11.858	False	Finance
3	Jerry	Male	3/4/2005	1:00 PM	138705	9.340	True	Finance
4	Larry	Male	1/24/1998	4:47 PM	101004	1.389	True	Client Services
...	...	...	...	...	...	...	...	...
995	Henry	NaN	11/23/2014	6:09 AM	132483	16.655	False	Distribution
996	Phillip	Male	1/31/1984	6:30 AM	42392	19.675	False	Finance
997	Russell	Male	5/20/2013	12:39 PM	96914	1.421	False	Product
998	Larry	Male	4/20/2013	4:45 PM	60500	11.985	False	Business Development
999	Albert	Male	5/15/2012	6:24 PM	129949	10.169	True	Sales

1000 rows × 8 columns

```
len(data)
```

```
1000
```

```
data.head()  ### print the first 5 rows
```

	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
0	Douglas	Male	8/6/1993	12:42 PM	97308	6.945	True	Marketing
1	Thomas	Male	3/31/1996	6:53 AM	61933	4.170	True	NaN
2	Maria	Female	4/23/1993	11:17 AM	130590	11.858	False	Finance
3	Jerry	Male	3/4/2005	1:00 PM	138705	9.340	True	Finance
4	Larry	Male	1/24/1998	4:47 PM	101004	1.389	True	Client Services

```
data.head(3)  ### print the first 3 rows
```

	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
0	Douglas	Male	8/6/1993	12:42 PM	97308	6.945	True	Marketing
1	Thomas	Male	3/31/1996	6:53 AM	61933	4.170	True	NaN
2	Maria	Female	4/23/1993	11:17 AM	130590	11.858	False	Finance

```
data.tail()  ### print the last 5 rows
```

	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
995	Henry	NaN	11/23/2014	6:09 AM	132483	16.655	False	Distribution
996	Phillip	Male	1/31/1984	6:30 AM	42392	19.675	False	Finance
997	Russell	Male	5/20/2013	12:39 PM	96914	1.421	False	Product
998	Larry	Male	4/20/2013	4:45 PM	60500	11.985	False	Business Development
999	Albert	Male	5/15/2012	6:24 PM	129949	10.169	True	Sales

```
data.sample()  ## print a random row
```

	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
925	NaN	Female	8/23/2000	4:19 PM	95866	19.388	NaN	Sales

```
data.sample(5)
```

	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
394	Robin	Female	1/8/1998	2:12 AM	111163	5.025	True	Product
987	Gloria	Female	12/8/2014	5:08 AM	136709	10.331	True	Finance
474	Jonathan	Male	8/15/2002	12:01 AM	104749	11.364	False	Engineering
287	Lois	Female	11/9/2011	7:06 AM	147183	9.999	True	Client Services
640	Kathleen	Female	8/28/2004	10:49 AM	42553	3.756	True	Distribution

```
data.sample(5,random_state=2)
```

	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
37	Linda	Female	10/19/1981	8:49 PM	57427	9.557	True	Client Services
726	Daniel	Male	2/29/2016	4:04 AM	77287	13.000	True	NaN
846	Stephen	Male	9/10/1990	10:42 PM	129663	15.574	False	Human Resources
295	Jesse	Male	3/2/1981	7:26 PM	79582	3.873	False	Legal
924	Deborah	Female	11/11/2003	4:53 PM	60003	9.624	False	Client Services

```
data.columns
```

```
Index(['First Name', 'Gender', 'Start Date', 'Last Login Time', 'Salary',
       'Bonus %', 'Senior Management', 'Team'],
      dtype='object')
```

```
data['First Name'].head()
```

```
0    Douglas
1     Thomas
2      Maria
3      Jerry
4      Larry
Name: First Name, dtype: object
```

```
type(data['First Name'].head())
```

```
pandas.core.series.Series
```

```
data[['First Name']].head()
```

	First Name
0	Douglas
1	Thomas
2	Maria
3	Jerry
4	Larry

```
data[['First Name','Gender']].head()
```

	First Name	Gender
0	Douglas	Male
1	Thomas	Male
2	Maria	Female
3	Jerry	Male
4	Larry	Male

```
data.head(1)
```

	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
0	Douglas	Male	8/6/1993	12:42 PM	97308	6.945	True	Marketing

```
data_new = data.rename(columns={"First Name":"Name","Start Date":"Joining Date"})
data_new.head()
```

	Name	Gender	Joining Date	Last Login Time	Salary	Bonus %	Senior Management	Team
0	Douglas	Male	8/6/1993	12:42 PM	97308	6.945	True	Marketing
1	Thomas	Male	3/31/1996	6:53 AM	61933	4.170	True	NaN
2	Maria	Female	4/23/1993	11:17 AM	130590	11.858	False	Finance
3	Jerry	Male	3/4/2005	1:00 PM	138705	9.340	True	Finance
4	Larry	Male	1/24/1998	4:47 PM	101004	1.389	True	Client Services

```
Start coding or generate with AI.
```